2006

Virginia Department of Transportation Daily Traffic Volume Estimates Including Vehicle Classification Estimates

where available

Special Locality Report 107

City of Covington

Information in this report is included in Report

03

(Alleghany County)

Prepared By

Virginia Department of Transportation Traffic Engineering Division

In Cooperation With

U.S. Department of Transportation Federal Highway Administration

Virginia Department of Transportation Traffic Engineering Division Traffic Monitoring Section

The Virginia Department of Transportation (VDOT) conducts a program where traffic count data are gathered from sensors in or along streets and highways and other sources. From these data, estimates of the average number of vehicles that traveled each segment of road are calculated. VDOT periodically publishes booklets listing these estimates.

One of these booklets, titled "Average Daily Traffic Volumes with Vehicle Classification Data, on Interstate, Arterial and Primary Routes" includes a list of each Interstate and Primary highway segment with the estimated Annual Average Daily Traffic (AADT) for that segment. AADT is the total annual traffic estimate divided by the number of days in the year. This booklet also includes information such as estimates of the percentage of the AADT made up by 6 different vehicle types, ranging from cars to double trailer trucks; estimated Annual Average Weekday Traffic (AAWDT), which is the number of vehicles estimated to have traveled the segment of highway during a 24 hour weekday averaged over the year; as well as Peak Hour and Peak Direction factors used by planners to formulate design criteria.

In addition to the Primary and Interstate publication, one hundred books are published periodically, one for each of 100 areas across the state defined by VDOT for record-keeping purposes. These books include traffic volume estimates for roads within the county, cities, and towns within the area. These books are titled "Daily Traffic Volumes Including Vehicle Classification Estimates, where available; Jurisdiction Report numbers 00 through 99".

Also available are a number of reports summarizing the average Vehicle Miles Traveled (VMT) in selected jurisdictions and other categories of highways. There are many different ways to present traffic volume summary information. Because the user determines the value of each presentation, the reports have been redesigned based on user requests and feedback. The people of the VDOT Traffic Engineering Division Traffic Monitoring Section who produce these books welcome requests for other helpful ways of presenting the summary information.

A compact disc (CD) is available that includes files in the Adobe® Portable Document Format (PDF) that can be displayed, searched, and printed using common desktop computer equipment. The CD includes the publications described above as well as a number of other reports, including specialized VMT summaries and smaller AADT reports for each city and town separately.

Publication Notes

Parallel Roads

For road inventory and management purposes, some roadways are counted separately by direction and have separately published traffic estimates for each direction of travel. Examples of such roadways are the interstate system and routes with separated facilities and (usually) one-way traffic facilities in urban areas. In these publications, they are referred to as parallel roads. As a convenience for the users of the publication, the listing for segments of roads with parallel segments are published with both the traffic estimates for their own direction of travel (e.g. I-95 Northbound) as well as the estimate of the total of all traffic on the same route including parallel roadways (all directions of I-95). The publication will have a "Combined Traffic Estimates for Parallel Roadways on this Route" or "Combined Traffic" identifiers for the combined direction of travel estimates.

Roadways such as I-395 with a North segment, a South segment and a separate Reversible lane segment will have the estimate for more than two parallel roadways included in the entire combined traffic estimate.

Some routes have very complicated paths through cities and towns. These parallel paths may be too complex to allow a relationship between nearby sections of the opposite direction on the same route. In this case, to indicate that the traffic estimates for such a road segment may not include all directions of traffic on that route, the line that would list the combined values will indicate "NA" for not available.

VDOT's traffic monitoring program includes more than 100,000 segments of roads and highways ranging from several mile sections of Interstate highways to very short sections of city streets. Due to problems experienced obtaining some traffic count data, and the level of quality necessary to maintain confidence in the data, no estimate is currently available for some segments of roadway. These segments are included in the publications indicating "NA" for not available. It is the intention of the VDOT Traffic Engineering Division Traffic Monitoring group to obtain the data necessary and to report traffic volume estimates on all road segments included in these publications.

Many of the road segments in this program are local secondary roads. The amount and detail of data collected on these roads are not as great as the data collected on higher volume roads. The vehicle classification, average weekday traffic volumes, and the theoretical design hour traffic volumes are not calculated for these roads. The publications indicate "NA" for the information that is not available.

This publication is based on a traffic monitoring program initiated in 1997. Because the data collection techniques and statistical evaluation processes are different than those used in previous years, comparison with previous publications may be misleading.

Glossary of Terms:

Route: The Route Number assigned to this segment of roadway with the master inventory route number if this is an overlapping route, with official street or highway name if available.

Length: Length of the traffic segment in miles.

AADT: Annual Average Daily Traffic. The estimate of typical daily traffic on a road segment for all days of the week, Sunday through Saturday, over the period of one year.

QA: Quality of AADT:

- A Average of Complete Continuous Count Data
- B Average of Selected Continuous Count Data
- F Factored Short Term Traffic Count Data
- G Factored Short Term Traffic Count Data with Growth Element
- H Historical Estimate
- M Manual Uncounted Estimate
- N AADT of Similar Neighboring Traffic Link
- O Provided By External Source
- R Raw Traffic Count, Unfactored

4Tire: Percentage of the traffic volume made up of motorcycles, passenger cars, vans and pickup trucks.

Bus: Percentage of the traffic volume made up of busses.

2Axle Truck: Percentage of the traffic volume made up of 2 axle single unit trucks (not including pickups and vans).

3+Axle Truck: Percentage of the traffic volume made up of single unit trucks with three or more axles.

1Trail Truck: Percentage of the traffic volume made up of units with a single trailer.

2Trail Truck: Percentage of the traffic volume made up of units with more than one trailer.

QC: Quality of Classification Data:

- A Average of Complete Continuous Count Data
- B Average of Selected Continuous Count Data
- C Short Term Classified Traffic Count Data
- F Factored Short Term Traffic Count Data
- H Historical Estimate
- M Mass Collective Average
- N Classification Estimates of Similar Neighboring Traffic Link

K Factor: The estimate of the portion of the traffic volume traveling during the peak hour or design hour.

QK: Quality of the K Factor estimate:

- A Factor based on 30th Highest Hour Observed During at least 250 days of Continuous Traffic Data
- B Factor based on other Hour Observed During Less than 250 days of Continuous Traffic Data
- F Factor based on Highest Hour Collected at in a 48 Hour Weekday Period
- M Factor based on Manual Estimate of design hour
- N Design Hour Factor (K Factor) of Similar Neighboring Traffic Link
- O Provided by External Source

Dir Factor: The estimate of the portion of the traffic volume traveling in the peak direction during the peak hour..

AAWDT: Average Annual Weekday Traffic. The estimate of typical traffic over the period of one year for the days between Monday through Thursday inclusive.

QW: Quality of AAWDT:

- A Average of Complete Continuous Count Data
- B Average of Selected Continuous Count Data
- F Factored Short Term Traffic Count Data
- G Factored Short Term Traffic Count Data with Growth Element
- M Manual Uncounted Estimate
- N AAWDT of Similar Neighboring Traffic Link
- O Provided by External Source

Year: Year for which the published values are appropriate. If the Quality of AADT (QA) is "R", the year is the year that the raw traffic count was collected, and if available,

Route Shield Legend

Route Systems

North 81	Interstate Route	Traffic volume data for Interstate Routes and some other routes are reported separately by direction, as well as combined.							
29	US Route								
7	Virginia State Route								
(F241)	Frontage Road (F	precedes frontage route number)							
600	Secondary Route								

Special Routes

Bus	Bus - Business Route		
[29]	Bypas - Bypass Route		
	Truck - Truck Route		
ALT	ALT - Alternate Route		
(220)	Wye - Wye Route connector		
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- P Parallel Route; Southbound or Westbound direction lanes of a numbered route where they are on a different road facility than the other direction.
- The VDOT Maintainenance Jurisdiction number is displayed below the Secondary Route Number if the Maintenance Jurisdiction is different than the jurisdiction in the title of the report.

### Virginia Department of Transportation Traffic Engineering Division

### 2006 Annual Average Daily Traffic Volume Estimates By Section of Route City of Covington

								Tru	ck			K		Dir		
Route	Jurisdiction	Length	AADT	QA	4Tire	Bus	2Ayle	3+Axle		2Trail	QC	Factor	QK	Factor	AAWDT	Q
	From:	SC	L Covingtor	1			ZAKIC	JIANIC	TTTAII	ZITAII		1 actor		1 actor		
8 Indian Valley	City of Covington	0.37	2700	F	97%	0%	1%	1%	1%	0%	С	0.083	F	0.625	2900	
	To	6.1	Pitzer Ridge								_					
8 S Carpenter Dr	From: City of Covington	0.44	4700	F	98%	0%	1%	1%	1%	0%	С	0.091	F	0.699	5000	
8 S Carpenter Dr	To:		ordon Street		90 /0	076		1 /0	1 /0	076	C	0.091	-	0.099	3000	
	From:		Gordon Stre													
8 S Carpenter Dr	City of Covington	0.31	4800	G	98%	0%	1%	1%	1%	0%	F	0.092	F	0.657	5200	
	To:	Edg	gemont Driv	e												
	From:	*	yant Road Ex													
8 Carpenter Drive	City of Covington	1.20	4000	F	97%	0%	1%	1%	1%	0%	С	0.087	F	0.682	4300	
<i></i>	To:	US 2	20 Madison	St												
~	From:	WC	CL Covingto	n												
0 N Monroe Avenue	City of Covington	0.09	3700	F	90%	0%	1%	1%	8%	0%	С	0.089	F	0.565	4000	
<u>~</u>	To:	SR 154	W Riversio	le St												
N Monroe Avenue	City of Covington	0.14	3600	G	98%	0%	1%	0%	1%	0%	F	0.098	F	0.571	4000	
ع الم	To	***	T . C.													
S Monroe Avenue	From:	0.43	Locust Stree 6500	F	98%	0%	1%	0%	1%	0%	С	0.095	F	0.565	7000	
0) o Monioe Avenue	Oity of Covingion			•	3070	070	170	070	1 /0	070	O	0.000	•	0.505	7000	
~	To- From:		Oak Street								_		_			
S Monroe Avenue	City of Covington	0.40	6200	F	98%	1%	1%	0%	1%	0%	С	0.087	F	0.558	6700	
<u>~</u>	To- From	US 220	N Alleghan	y Ave												
60 220 E Madison Avenue	City of Covington	0.12	14000	G	98%	0%	1%	0%	1%	0%	F	0.080	F	0.614	15000	
<i></i>	To:	SH	Highland Ave	3			$\neg$ $\vdash$									
East Madison Street	City of Covington		14000	F	93%	0%	1%	1%	5%	0%	С	0.078	F	0.571	15000	
	, ,	an t	0.0													
60 (220) E Madison Street	City of Covington		8 Carpenter 12000	F	90%	0%	1%	1%	7%	0%	С	0.076	F	0.5	13000	
E Madison Street	City of Covingion		L Covington		90%	076	176	1 70	170	0%	C	0.076	Г	0.5	13000	
							_									
ast	City of Covington (Mainty 02)		CL Covingto: 5300		750/	40/	10/	40/	220/	40/	_	0.000	F		4000	
54	City of Covington (Maint: 03)			G	75%	1%	1%	1%	22%	1%	г -	0.068	Г		4900	
	Combined Traffic Estimates for 2 Parallel Roadwa	lys on this Route:	10000	G	75%	1%	1%	1%	22%	1%	F	NA			9900	
ast	To- From:		SR 154													
64)	City of Covington (Maint: 03)	) 1.19	6400	G	75%	1%	1%	1%	22%	1%	F	0.075	F		6000	
	Combined Traffic Estimates for 2 Parallel Roadwa	vs on this Route:	13000	G	75%	1%	1%	1%	22%	1%	F	0.079	F	0.541	12000	
	То:		L Covingtor													
est	From:	WC	CL Covingto	n												
4	City of Covington (Maint: 03)		5200	G	74%	1%	1%	1%	23%	1%	F	0.088	F		5000	
7	Combined Traffic Estimates for 2 Parallel Roadwa		10000	G	75%	1%	1%	1%	22%	1%	F	NA			9900	
	ты	,,				.,,		. , ,	,	. , ,	-					
est	From:		SR 154													
64	City of Covington (Maint: 03)	1.08	6700	G	74%	1%	1%	1%	23%	1%	F	0.085	F		6400	
	Combined Traffic Estimates for 2 Parallel Roadwa	ys on this Route:	13000	G	75%	1%	1%	1%	22%	1%	F	0.079	F	0.541	12000	
	To	EC	L Covingtor	ı												

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### 2006 Annual Average Daily Traffic Volume Estimates By Section of Route City of Covington

								Tru	ck			K	01/	Dir		0144
Route	Jurisdiction	Length	AADI	QA	4Tire	Bus		3+Axle			QC	Factor	QK	Factor	AAWDT	QW
	From:	I-	64 Covingto	on												
(154) S. Durant Rd/S. Craig Ave	City of Covington (Maint: 03)	0.75	12000	F	98%	0%	0%	0%	1%	0%	С	0.083	F	0.555	13000	F
<u> </u>	To- Fram:	C	hestnut Stre	et												
(154) Craig Ave	City of Covington	0.56	4700	F	99%	0%	0%	0%	0%	0%	С	0.11	F	0.606	5000	F
$\smile$	То:		Locust Stree													
	From:		kington Aver													
154 E Riverside St	City of Covington	0.28	3600	F	98%	0%	1%	0%	0%	0%	С	0.105	F	0.542	3900	F
<u> </u>	To: From:	M	onroe Aven	ue			_									
154 E Riverside St	City of Covington	0.24	5900	G	86%	0%	1%	2%	11%	0%	С	0.088	F	0.597	6400	G
	To- France	Ma	gazine Aver	nue			$\neg$ $\vdash$									
154 East Hickory Street	City of Covington	0.09	1200	G	86%	0%	1%	2%	11%	0%	F	0.101	F	0.565	1300	G
$\overline{}$	To:	All	eghany Aver	nue												
	From:	E	CL Covingto	on												
(220) (60) E Madison Street	City of Covington	0.46	12000	F	90%	0%	1%	1%	7%	0%	С	0.076	F	0.5	13000	F
<del></del>	To	SR	18 Carpente	er St			$\neg$ $\vdash$									
(220) (60) East Madison Street	City of Covington	0.26	14000	F	93%	0%	1%	1%	5%	0%	С	0.078	F	0.571	15000	F
<del>*</del> *	To	S H	ighland Ave	nue			$\neg$ $\vdash$									
220 60 E Madison Avenue	City of Covington	0.12	14000	G	98%	0%	1%	0%	1%	0%	F	0.080	F	0.614	15000	G
$\hookrightarrow$	To:	SN	Ionroe Aver	nue			$\neg$ $\sqsubseteq$									
(220) N Alleghany Ave	City of Covington	0.93	8000	F	87%	0%	1%	2%	10%	0%	С	0.077	F	0.546	8600	F
<u> </u>	Tor	Е	Locust Stre	et			$\neg$ $\vdash$									
220 N Alleghany Ave	City of Covington	0.62	8500	F	87%	0%	1%	2%	10%	0%	С	0.080	F	0.542	9200	F
<b>~</b>	To:	ŊМ	agazine Ave	enue			$\neg$ $\vdash$									
(220) N Alleghany Ave	City of Covington	0.66	6600	F	96%	0%	1%	2%	1%	0%	С	0.088	F	0.555	7100	F
	To:	N	CL Covingto	on												

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# Virginia Department of Transportation Traffic Engineering Division 2006 Annual Average Daily Traffic Volume Estimates By Section of Route City of Covington

						City of C	ovingion									
Route	Length	AADT	QA	4Tire	Bus	2Axle 3	Truck +Axle 1			QC	K Factor	QK	Dir Factor	AAWDT	QW	Year
City of Covington		From	.1				~ · * ·				-					
=203)	0.79	NA				Alleghany (	County Line				NA			NA		
2009		To				107-	3605									
		From	٩			SR 18 Ca	rolton Rd									
=204	0.48	<b>NA</b>					15 1				NA			NA		
		From	1				d End									
1)	0.86	NA				SR 18 Carp	benter Drive	;			NA			NA		
•)		То	:			JB-2	2-107									
$\widehat{}$		From				SR 154 C	Craig Ave									
2 Hawthorne St	0.42	NA To				US 60 S Mo	nroo Avoni	10			NA			NA		
		From					7-5	ie			<u> </u>					
3)	0.71	NA				10	1-3				NA			NA		
<u> </u>		То	:			Rivers	side St									
		From	٥			SR 154 C	Craig Ave									
4 Locust St	0.13	NA To				10	7.0				NA			NA		
		From	1 .r		ar		7-3	- 4 D 1			<u> </u>					
5 Chestnut St	0.13	NA	<u> </u>		SR	154 Craig A	ve; S. Dura	nt Kd			NA			NA		
5) Oncound of	0.10	To	_			10	7-3									
5 Chestnut St	0.29	NA From				10	1-3				NA			NA		
9		То	:			US 220 N A	lleghany Av	/e								
		From				SR	. 18									
S Pitzer Ridge	0.37	600	G	99%	0%	0%		0%	0%	С	0.099	F	0.582	650	G	200
		То					ovington									
605) W Edgemont Drive	0.67	3500	`	98%	0%	S Carpe	enter Dr 0%	1%	0%	С	0.108	F	0.534	3700	F	200
605) W Edgemont Drive	0.67	3300 To	Ė	90%	0%		Drive	1 70	070		0.106	Г	0.554	3700	Г	200
$\overline{}$		From				W Edgen	nont Drive									
S Rayon Drive	0.21	3500	F	98%	0%	1%		1%	0%	С	0.099	F	0.623	3800	F	200
		From				S Rayo	on Street on Drive									
605) W Jackson Street	0.43	4100	G	98%	0%	0%		1%	0%	С	0.095	F	0.601	4500	G	200
<u> </u>		To From				S Willis	Avenue									
S Durrant Road	0.45	4800	G	98%	0%	0%		1%	0%	С	0.090	F	0.558	5200	G	200
		То					64									
Beverly Avenue		160	G			Cypn	ess St				0.139	F		160	G	200
Dovony Avoilue		To				Ced	ar St				0.109	•		100	J	200
		From	:				as Avenue	•			ī					
Cedar Street		390	G								0.111	F		390	G	200
		To				Greenbrie	er Avenue									
Dellaran Deba		From	پ			E Madis	on Street				0.000	_		000		000
Dollyann Drive		680 To	G			S Pond	Avenue				0.098	F		680	G	200
		From					ailroad				1					
E Chestnut St		6800	F	99%	0%	1%		0%	0%	С	0.086	F	0.546	6800	F	200
		To					and Ave									
E Chestnut St		1200	F	98%	0%	US 60 M	onroe Ave	0%	0%	С	0.1	F		1200	F	200
		1200 To		3070		US 220 S A			0 /0							
		From	L				nd Drive									
E Fairlawn Drive		70	G								0.134	F		70	G	200
		To				0.0.1	D :									
						S Carito	on Drive									
E Gordon Street		From <b>240</b>	G				an Avenue				0.113	F		240	G	200

# Virginia Department of Transportation Traffic Engineering Division 2006 Annual Average Daily Traffic Volume Estimates By Section of Route City of Covington

					City of Co									
Route	Length AADT	QA	4Tire	Bus	2Axle 3+	Truck -Axle 1Tra		QC	K Factor	QK	Dir Factor	AAWDT	QW	Yea
y of Covington	From	1			S Mound	Avenue			- i					
E Gray Street	210	G			5 Would	Avenue			0.095	F		210	G	2006
	To				S Pond A	Avenue								
	From				S Lawn	Ave								
E Hawthorne St	NA								NA			NA		
	To:				S Highlar									
E Magazine Ave	From: <b>220</b>		96%	1%	US 220 N All 3%	eghany Ave 0% 0%	5 0%	С	0.097	F	0.546	220	F	2006
L Magazine Ave	<b>220</b> To:		90 /0	1 /0	Hazel		0 /0		0.097		0.540	220	Г	200
	From				SR 18 S Car				l					
E Mallow St	1300	F	99%	0%		0% 0%	0%	С	0.09	F	0.531	1300	F	200
	To:				E Hamil	ton Dr								
	From:				S Ohio	) Dr								
E Michigan Street	270	G							0.122	F		270	G	200
	To	:			S Greenwa	ay Drive								
50 # ID I	From:				S Carlton	Drive				_		70	•	000
E Scotland Road	<b>70</b>	G			E Fairlaw	n Drivo			0.142	F		70	G	200
	Erom	<u> </u>												
E Trout Street	160	G			Carpente	r Drive			0.138	F		160	G	200
E Trout Officer	To	Ť			ECL Cov	vington				•		100	Ü	200
	From:	:			S Greenwa									
Forest Avenue	49	G			В Отселии	ay Direc			0.121	F		49	G	200
	To				Dead :	End								
	From				W Rivers	side W								
N Lexington	2300	F	99%	0%	1% (	0%	0%	С	0.107	F	0.535	2300	F	200
	To				Chestnut	Street								
	From				E Larc									
N Magazine Ave	4400 _{To:}	F	84%	0%		1% 13%	6 0%	С	0.085	F	0.525	4400	F	200
					N Mil									
N. Manla Ava	From:	F	060/	1%	W Loci		00/	С	0.124	F	0.506	1200	F	200
N Maple Ave	1200 _{To:}		96%	1%	2% ( W Mai		0%		0.134	Г	0.506	1200	Г	200
	From	:I			W Locust				+					
N Marion Street	440	G			W Locus	i Sticci			0.112	F		440	G	200
	To:				W Hawthor	ne Street				•			_	
	From:	:			E. Willo	ow St.								
N Rockbridge Ave.	100	G							0.121	F	0.72	100	G	200
	To	:			E. Ceda	ar St.								
	From				Cedar S	Street								
Pocahontas Avenue	440	G							0.125	F		440	G	200
	To				McAlliste	r Street								
	From				E Scotlan	d Road							_	
S Carlton Drive	130 _{To:}	G			E Fairlaw	- Di-			0.110	F		130	G	200
		!												
S Greenway Drive	530	G			E Michiga	in Street			0.1	F		530	G	200
5 Greenway Drive	33U To:	<u> </u>			E Pennsylva	ınia Street			J. 1	1.		550	G	200
	From	:			E Pine				i					
S Highland Ave	2000	F	96%	0%		0% 2%	5 0%	С	0.09	F	0.517	2000	F	200
	To	:	- , -		E Oal									
	From	1			N Maple	Avenue								
W Hawthorne Street	1400	G			<u> </u>				0.105	F		1400	G	200
	To	:		_	N Court A	Avenue		_						
	From:				N Maple									
W Main St	2100	F	96%	1%		0%	0%	С	0.118	F	0.504	2100	F	200
	To	1			N Cour	t Ave			1					

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# Virginia Department of Transportation Traffic Engineering Division 2006 Annual Average Daily Traffic Volume Estimates By Section of Route City of Covington

Route City of Covington	Length	AADT	QA	4Tire	Bus	Truck2Axle 3+Axle 1Trail 2Trail	QC	K Factor	QK	Dir Factor	AAWDT	QW	Year
W Riverview Drive		590	G			S Durant Road S Conrad Avenue		0.136	F	0.522	590	G	2006
Woodlawn Avenue		From: <b>30</b>	G			E. Detroit Street  E. Michigan Street		0.16	F		30	G	2006

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